

Remarks/Arguments begin on page 4 of this paper.

LISTING OF CLAIMS

1.-9. (Cancel)

10. (Currently Amended) ~~The method according to claim 7,~~ A method of producing coke comprising the steps of:

disposing a volume of coal into a non-recovery type oven having an oven floor;

heating the volume of coal to produce a coke mass having an apparent specific gravity of about 1.05;

providing a container;

moving the coke mass from the oven at a substantially constant elevation to the container;

quenching the coke mass in the container to produce a quenched coke mass, wherein the step of quenching comprises the step of applying a volume of water to the coke mass in the container to produce a quenched coke mass; and

removing the quenched coke mass from the container.

11. (Currently Amended) ~~The method according to claim 7,~~ A method of producing coke comprising the steps of:

disposing a volume of coal into a non-recovery type oven having an oven floor;

heating the volume of coal to produce a coke mass having an apparent specific gravity of about 1.05;

providing a container;

moving the coke mass from the oven at a substantially constant elevation to the container;

quenching the coke mass in the container to produce a quenched coke mass, wherein the step of quenching comprises the step of recovering the heat transferred to the volume of water by the coke mass; and

removing the quenched coke mass from the container.

12. (Currently Amended) ~~The method according to claim 7,~~ A method of producing coke comprising the steps of:

disposing a volume of coal into a non-recovery type oven having an oven floor;

heating the volume of coal to produce a coke mass having an apparent specific gravity of about 1.05;

providing a container;

moving the coke mass from the oven at a substantially constant elevation to the container;

quenching the coke mass in the container to produce a quenched coke mass, wherein the step of quenching comprises the step of applying liquid nitrogen to the coke mass in the container to produce a quenched coke mass; and

removing the quenched coke mass from the container.

13. (Previously Presented) A method of producing coke comprising the steps of:
providing a first container;

disposing a volume of loose coal into the first container such that a vertical dimension of the volume of loose coal in the first container is smaller than a horizontal dimension of the volume of loose coal;

applying a force to the volume of loose coal in the first container to produce a volume of coal forming a single compact having a density which is greater than that of the loose coal disposed in the first container;

disposing the volume of the single compact of coal into a non-recovery type oven having an oven floor;

heating the volume of the compact of coal to produce a coke mass;

providing a second container;

moving the coke mass from the oven at a substantially constant elevation to the second container;

quenching the coke mass in the second container to produce a quenched coke mass; and

removing the quenched coke mass from the second container.

14.-18. (Cancel)